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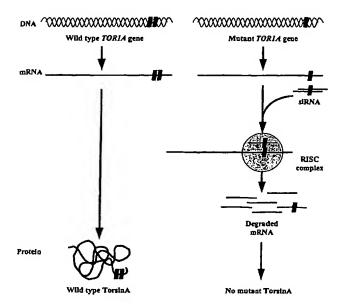
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[Continued on next page]

(54) Title: ALLELE-SPECIFIC siRNA-MEDIATED GENE SILENCING



(57) Abstract: The present invention is directed to small interfering RNA molecules (siRNA) targeted against an allele of interest, and methods of using these siRNA molecules.



Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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INTERNATIONAL SEARCH REPORT

Interestional Application is

PCT/US03/16887

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US CL : 435/6, 91.1, 91.31, 455, 458; 536/23.1, 24.5; 514/44						
According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED						
	ocumentation searched (classification system followers) 35/6, 91.1, 91.31, 455, 458; 536/23.1, 24.5; 514/44	d by classification symbols)				
Documentat	ion searched other than minimum documentation to the	ne extent that such documents are included	in the fields searched			
	ata base consulted during the international search (na g, STIC sequence search	me of data base and, where practicable, sea	arch terms used)			
	CUMENTS CONSIDERED TO BE RELEVANT					
Category *	Citation of document, with indication, where		Relevant to claim No.			
Y	US 6,387,616 (ORZELIUS et al.) 14 May 2002 (at ID NO. 24).	stract, ∞i. 1, 7, 12-14, 17, 51-52, SEQ	1-17, 25-27			
Y	FIRB, A. et al., Potent and specific genetic interfer elegans, Nature, Vol. 391, pages 806-811, Feb. 19, and Table 3 on p. 809).					
Y	US 5,902,880 (THOMPSON) 11 May 1999 (col. 6	1-17, 25-27				
Y	US 2002/0086356 (TUSCHL et al.) 4 July 2002 (p.	3-8				
Furthe	r documents are listed in the continuation of Box C.	See patent family annex.	·			
Special categories of cited documents: "A" document defining the general state of the set which is not considered to be of particular relevance.		"I" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention				
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"O" document referring to an oral disolosure, use, exhibition or other means						
	t published prior to the international filing date but later than the late claimed	"&" document member of the same patent far	• 1			
Date of the actual completion of the international search		Date of mailing of the international search report 31 00 2005 Authorized officer Jane Zara				
14 September 2005 (14.09.2005)		Authorized offices				
Name and mailing address of the ISA/US Mail Stop PCT, Attr: ISA/US		January Ohn	and			
Con	unissioner of Patents	Jane Zara	•			
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Facsimile N	o. (703) 305-3230					
rom PCI/IS/	4/210 (second sheet) (July 1998)					

INTERNATIONAL SEARCH REPORT

Interactional application 200

PCT/US03/16887 Box I Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet) This international report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons: Claim Nos.: because they relate to subject matter not required to be searched by this Authority, namely. Claims 18-24 and 41-60 were not searchable because they were multiply dependent claims. Claim Nos.: 18-24 and 41-60 because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically, Claim Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a). Box II Observations where unity of invention is lacking (Continuation of Item 2 of first sheet) This International Searching Authority found multiple inventions in this international application, as follows: Please See Continuation Sheet As all required additional search fees were timely paid by the applicant, this international search report covers all As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.: No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-17,25-27 and 61-81 The additional search fees were accompanied by the applicant's protest. Remark on Protest No protest accompanied the payment of additional search fees.

PATENT COOPERATION TREATY

	From t	From the INTERNATIONAL BUREAU			
PCT	To:	То:			
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NOTIFICATION OF THE RECORDING		VIKSNINS, Ann, S.			
OF A CHANGE		Fish & Richardson P.C., P.A.			
ADOT Bula 00kis 1 and		60 South Sixth Street			
(PCT Rule 92bis.1 and Administrative Instructions, Section 422)		Suite 3300			
Administrative instructions, occion 422/		Minneapolis, MN 55402 United States of America			
Date of mailing (day/month/year)	7	ed States of America			
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International application No. PCT/US2003/016887		26 May 2003 (26.05.2003)			
1017002003/010007		107 2000 (20.00.2000)			
1. The following indications appeared on record concerning:	_				
X the applicant X the inventor	the ager	t the commo	n representative		
Name and Address		State of Nationality	State of Residence		
HARPER, Scott Department of Neurology		US	US		
University of Iowa College of		Telephone No.			
Medicine 2007 RCP		Facsimile No.			
Iowa City, IA 52242					
United States of America	1				
	ļ	voiopilitoi voi			
2. The International Bureau hereby notifies the applicant that t	he following	change has been recorded o	oncerning:		
the person the name X the add	ī	the nationality	the residence		
Name and Address		State of Nationality	State of Residence		
HARPER, Scott		US	US ·		
1 Warwick Circle lowa City, IA 52240-2847	0.4	Telephone No.			
lowa City, IA 52240-2847 United States of America EPO -DC					
16, 02. 20	חר	Facsimile No.			
i. 10, 02. 20	נטנ				
(117)		Teleprinter No.			
3. Further observations, if necessary:					
4. A copy of this notification has been sent to:					
X the receiving Office	. Г	X the designated Offices of	oncerned		
X the International Searching Authority	Ī	the elected Offices conc			
the International Preliminary Examining Authority	Ĺ	other:			
the international Freignmary Examining Authority					
The International Bureau of WIPO		Authorized officer			
34, chemin des Colombettes		Anne KARKACHI (Fax 338.87.20)			
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Facsimile No. (41-22) 338.87.20		Telephone No. (41-22) 338 9656			